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Anthocerotaceae

Anthoceros carolinianus Michx. (No. 46). On earth and logs.

Anthoceros punctatus L. (No. 47). On sandy bank, earth, and logs.

HIGHLANDS, N. J.

**ADDITIONS TO THE LICHEN-FLORA OF SOUTHERN CALIFORNIA.—
NO. 10**

H. E. HASSE

With the exceptions of those species published by Dr. A. Zahlbruckner in *Annales Mycologici* the writer is responsible for the descriptions of the following new species:

Dermatocarpon heppioides A. Zahlbr. n. sp., *l. c.* X, 359. 1912. On rocks, Santa Monica Mts.

Arthopyrenia (Acrocordia) sphaeroides (Wallr.) A. Zahlbr. Thallus effuse, smoothish, light gray with a faint yellowish dash. Apothecia dimidiate, dull black, hemispherical, at base thinly coated with thallus. Spores 8, colorless, bilocular, ellipsoid, 14μ to 16μ long, 6μ to 8μ thick. Spermatia acicular, straight or lightly curved at distal end, 16μ long. Hym. gel. with I yellow. On oak, Catalina Island.

Mycoporellum californicum A. Zahlbr. n. sp., *l. c.* X, 363. 1912. On *Quercus agrifolia*, Santa Monica Mts.

Opographa hassei A. Zahlbr. n. sp., *l. c.* X, 365. 1912. Rocks, Catalina Island.

Lecidea (Biatora) meiocarpa Nyl. Lich. Fr. Behr. p. 57; in *Flora* p. 577. 1876. Northern and oriental Asia (Japan), in N. Amer. (Port Clarence), Europe. Not heretofore reported from the United States, it is believed.

Lecanora lacustris (With.) Nyl. (*L. cinerea lacustris* Nyl. Lich. Scand. 55. 1861.) Tuck. Syn. Li. N. Amer. I. 199. On schistose rocks, Santa Monica Mts.; Eastern N. A., but perhaps not before reported from the west coast. Authors mention as habitat "rocks often inundated," which, however, does not hold good with our lichen whose "inundations" occur with us only during the brief rainy season.

Rinodina dirinoides A. Zahlbr. n. sp. in litt. Thallus crustaceous, dull whitish, of thick convex cushion-like squamules with lobulate border, mealy, corticate above, attached to substratum by medullary hyphae, the cushions 1.5 to 4 mm. wide. Apothecia mostly several on each cushion, appressed-sessile, 1 to 1.8 mm. in width; disk flat-convex, dark but thickly pruinose and thus appearing but little darker than the thallus; thallus with K. yellow, soon orange brown or dark saffron, C— . Epithecium granulose, light yellowish brown; thecium colorless, 100μ to 112μ high; paraphyses strict, coherent, hypothecium pale straw color; asci inflated clavate, reaching up to the epithecium, 8-spored; spores bilocular, blunt ellipsoid, 15μ to 24μ long, 8μ to 12μ thick, light umber brown, the loculi at first almost without color, in mature spores red-brown. Hym. gel

with I deep blue turning dark violet-brown, with K the epithecium stains orange-red. This species is placed in the sect *Miscoblastia* by Dr. Zahlbruckner. On calcareous tufa near Clifton By the Sea, Los Angeles Co. Type with Dr. Zahlbruckner, cotypes in Sullivan Moss Society and Hasse herbaria.

Rinodina euryspora A. Zahlbr. n. sp. in litt. Thallus determinate, crustaceous, rimose-areolate, sordid yellowish brown, medium thick, areolae concave, 0.3 to 0.75 mm. wide; apothecia appressed sessile, 0.2 to 0.5 mm. wide; disk black and white pruinose or naked, thalline margin permanent, slightly elevated, entire or crenulate; epithecium continuous, sordid yellow; thecium colorless, 120 μ high, paraphyses stout, about 2 μ thick, eseptate, not furcate, tips of some slightly clavate and colored; hypothecium amber-yellow; asci inflated clavate, 8-spored; spores bluntovoid-ellipsoid, brown, bilocular, constricted, 12 μ to 15 μ long, 6 μ to 11 μ thick. Hym. gelat. stains blue with I, K—. Thallus K—, C—. On argyllaceous shale, Highland Park near Pasadena. Type with Dr. A. Zahlbruckner, cotype in herb. Hasse.

SANTA MONICA, CAL.

HEPATIC NOTE

The curator acknowledges with gratitude the gifts of the following specimens in response to the appeal for N. A. species in the January *BRYOLOGIST*:
Dr. A. W. Farlow.—

Plagiochasma Wrightii and *Marchantia disjuncta* from Mexico. *Scapania gracilis* from Maine.

Dr. A. W. Evans.—

Sphenobolus saxicola from Gaspé Co., Quebec.

Miss A. Lorenz.—

Gymnomitrium coralloides from New Hampshire.

Collection of A. H. Brinkman from B. C.—

Sauteria alpina

Scapania uliginosa.

Asterella Lindenberghiana.

Mr. Severin Rapp from Sanford, Fla.—

Metzgeria myriopoda.

Lejeunea spinulosa.

Frullania cobrensis.

Rectolejeunea Brittoniae.

Frullania Donnellii.

Brachiolejeunea corticalis.

Frullania Kunzei.

Leucolejeunea cuneileifolia.

Thallocarpus Curtisii.

L. hanthoscarpa.

Sphaerocarpos texanus.

L. uncioloba.

Cephalozia floridæ.

Lopholejeunea Muelleriana.

Cephalozia Rappiana.

Cheilelejeunea polyantha.

Cololejeunea minutissima.

Leptocolea Jooriana.

C. setiloba.

Taxilejeunea aletusangula.

Displasiolejeunea Rudolphiana.

It was an error to include the common *Scapania irrigua*. The list is now reduced to 86 species.

SUPERIOR, WIS., FEB. 1915.

GEO. H. CONKLIN.